What is claimed is:

- 1. A magnetic recording medium, comprising a magnetic layer containing at least a ferromagnetic powder and a binder resin on one surface of a non-magnetic support, wherein the thickness of the magnetic layer is within a range from 0.03 to 0.30 μ m, and the number of concavities with a depth of 30 nm or greater in the surface of the magnetic layer is 5 per 1 cm² of surface area or less.
- 2. The magnetic recording medium according to claim 1, wherein the value of the average depth Rv6 of the surface of the magnetic layer, as measured by a contact type surface roughness meter, is 12 nm or less.
- 3. The magnetic recording medium according to claim 1, wherein the average major axis length of the ferromagnetic powder is 0.1 µm or less.
- 4. The magnetic recording medium according to any one of claims 1 to 3, wherein the medium is used in a recording and reproducing system in which the minimum recording wavelength is 0.6 µm or shorter.
- 5. A magnetic recording medium, comprising a lower non-magnetic layer containing at least a non-magnetic powder and a binder resin on one surface of a non-magnetic support, an upper magnetic layer containing at least a ferromagnetic powder and a binder resin on the lower non-magnetic layer, and a back coat layer on the other surface

of the non-magnetic support, wherein the thickness of the upper magnetic layer is within a range from 0.03 to 0.30 μm , and the number of concavities with a depth of 30 nm or greater in the surface of the upper magnetic layer is 5 per 1 cm² of surface area or less.

- 6. The magnetic recording medium according to claim 5, wherein the value of the average depth Rv6 of the surface of the magnetic layer, as measured by a contact type surface roughness meter, is 12 nm or less.
- 7. The magnetic recording medium according to claim 5, wherein the average major axis length of the ferromagnetic powder is 0.1 µm or less.
- 8. The magnetic recording medium according to any one of claims 5 to 7, wherein the medium is used in a recording and reproducing system in which the minimum recording wavelength is 0.6 μ m or shorter.